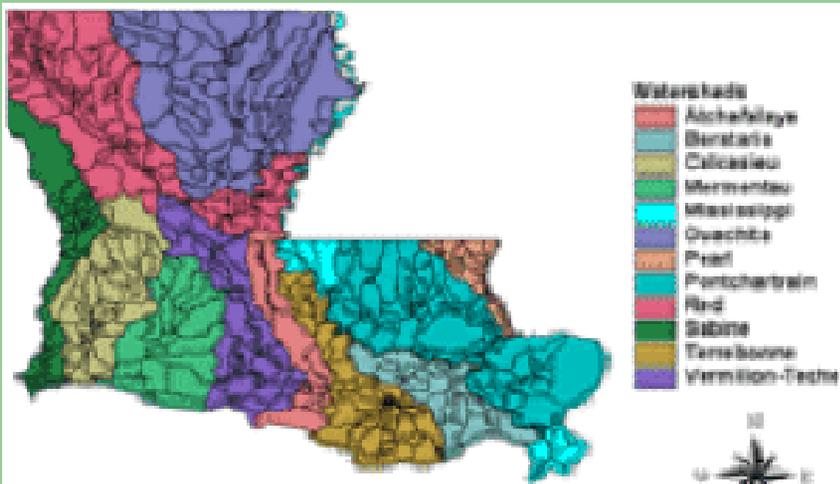


# Bayou Vermilion Processes and Dynamics

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Bayou Vermilion District





Bayou Fusilier – Headwaters of the Vermilion

Wing-dyke, Bayou Fusilier near Arnaudville





Hwy 93 near Arnaudville



“Right to the edge” farming practices allow soil loss



Sediment-choked stream



Coulee des Monde, Pointe Claire



Round-up sprayed to control grass along coulee



Vegetation in roadside ditch  
prevents soil loss

## Roadside ditch without vegetation





Sediment transported to ditch – then bayou

Turbidity caused by suspended sediment





Sediment and debris collects at downstream bridge pilings



Concentrations of debris restrict flow



Mixture of organic debris and litter collects at Gloria Switch Bridge



BVD crewman attempts to remove debris at bridge

Plastic bags, carpet,  
clothing and barbed wire

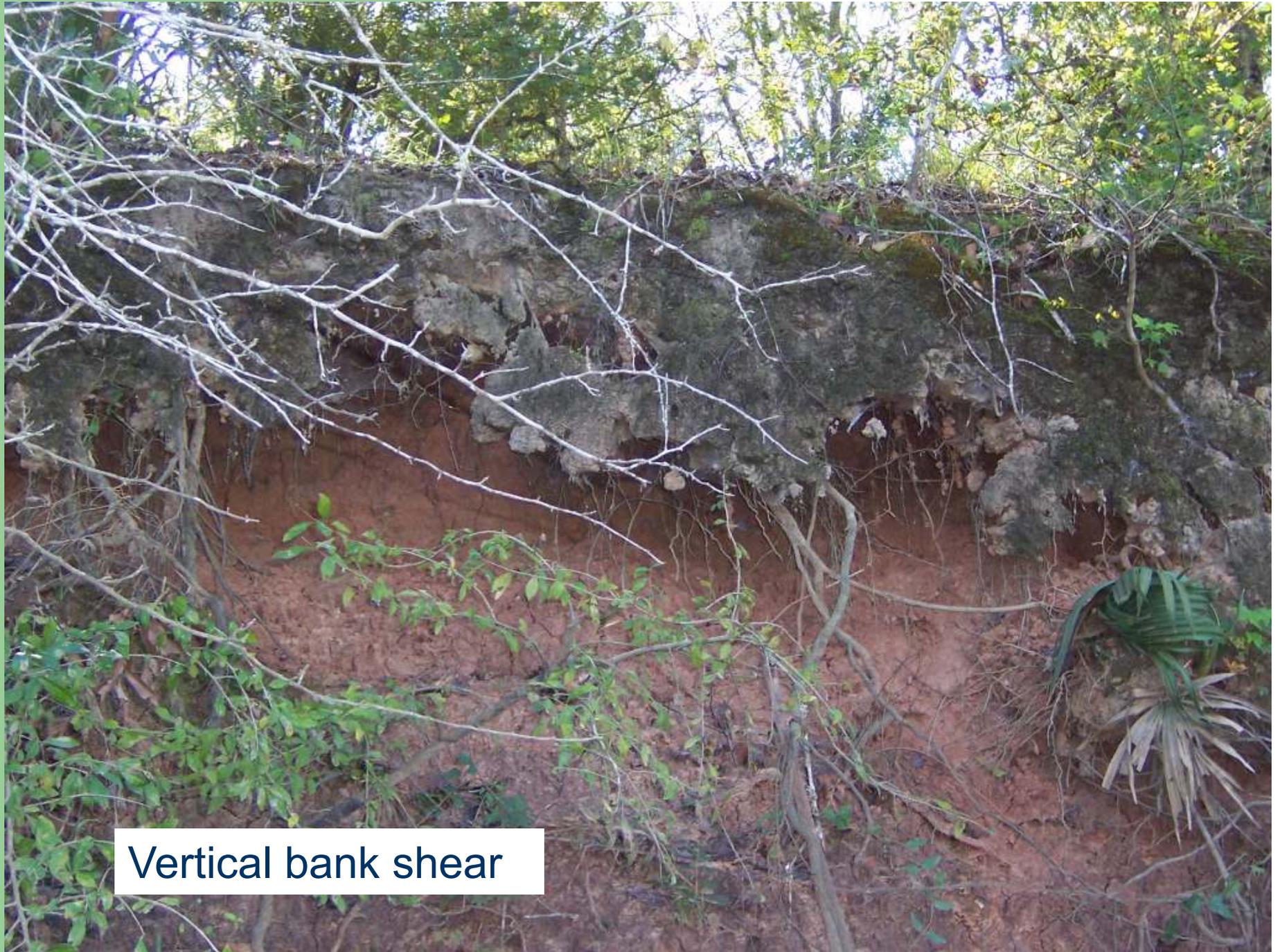


Mattress box spring in  
BVD workboat propeller



Unstable soils erode into bayou





Vertical bank shear



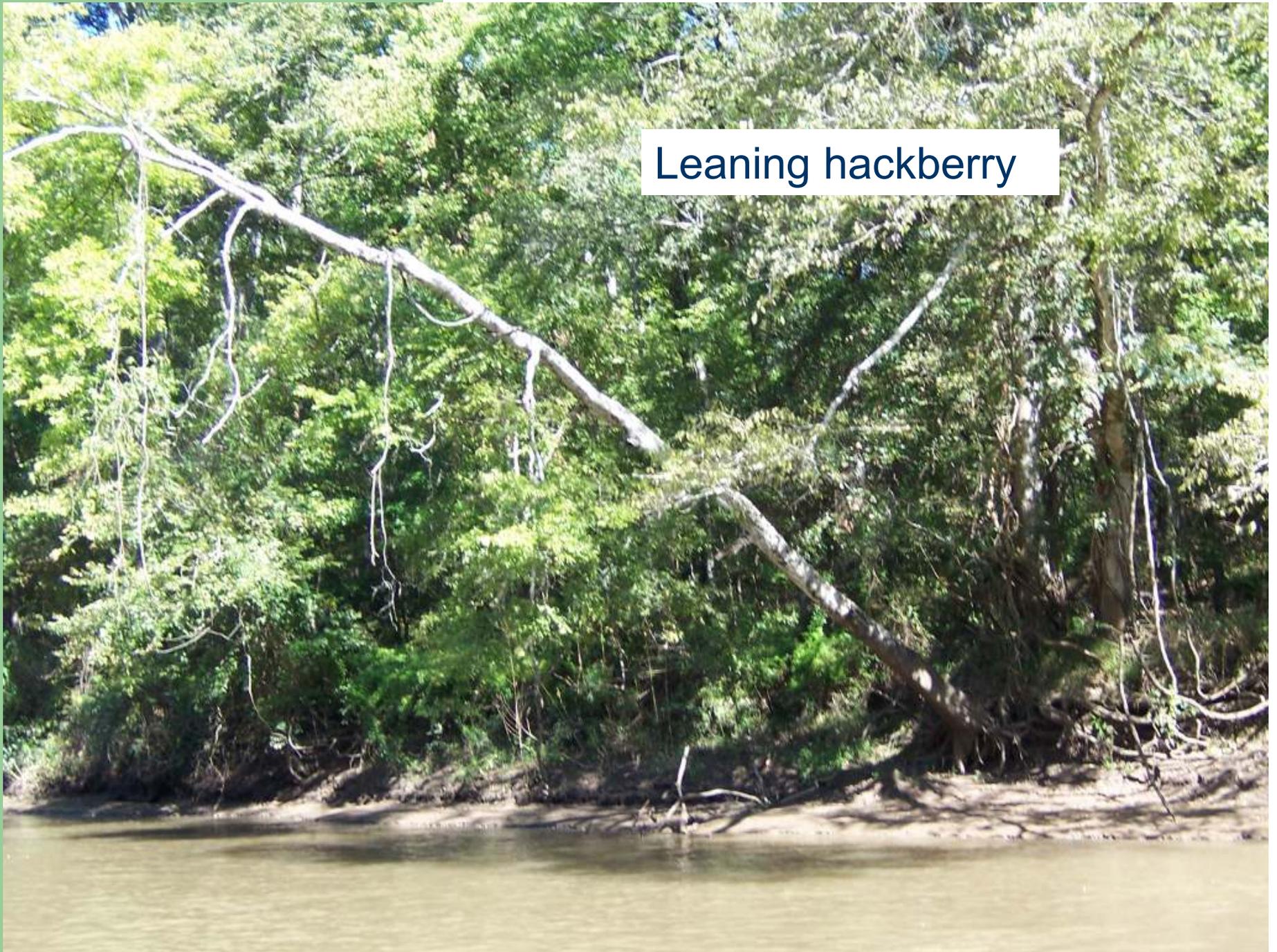






Extended high water periods destabilize soils

Leaning hackberry



Sediment trap leaning toward bayou



Should be removed before they fall





Fallen trees open the bank to greater erosion

Same tree after water recedes





Crew collects debris in Webb Coulee

Debris floating in recent storm surge





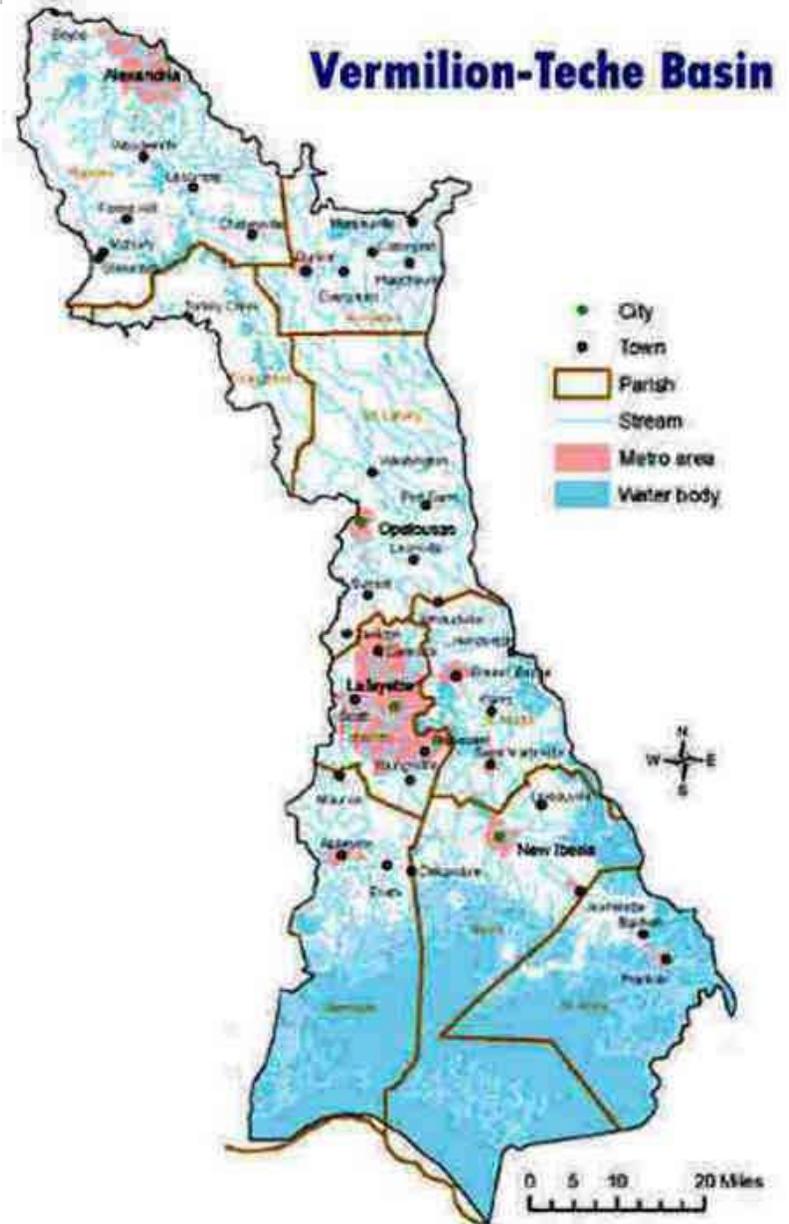
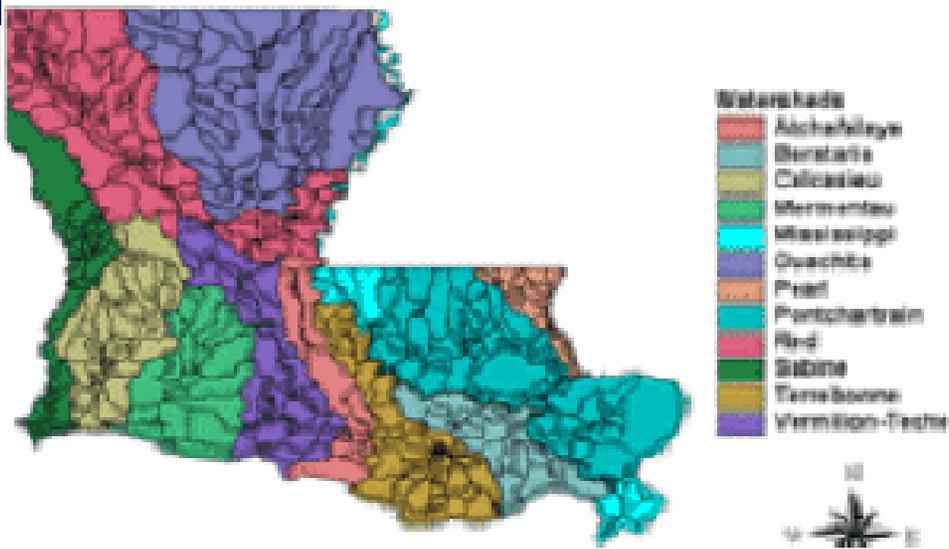
Flooded backyard near Milton, May 2008



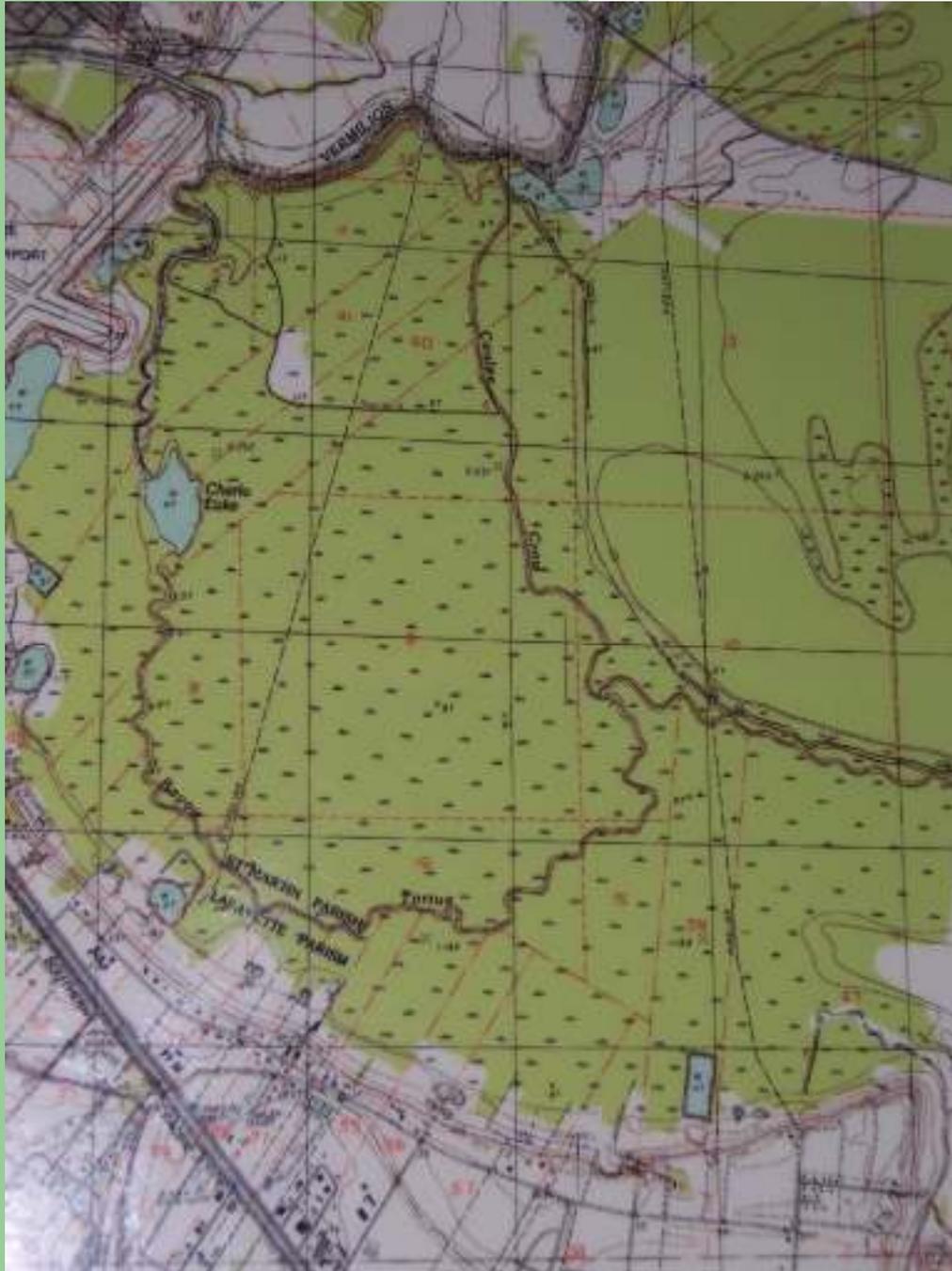
Wa Wees Bar in Milton, May 2008



Barge adrift during highwater, May 2008



Watershed location



Bayou Tortue Floodplain  
Lafayette's Natural Spillway



**Fini et Merci !**